FIREPROOF HOUSES

OF

NATCO

HOLLOW TILE

Pittsburgh Edition

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FIREPROOF HOUSES

Seventh Edition

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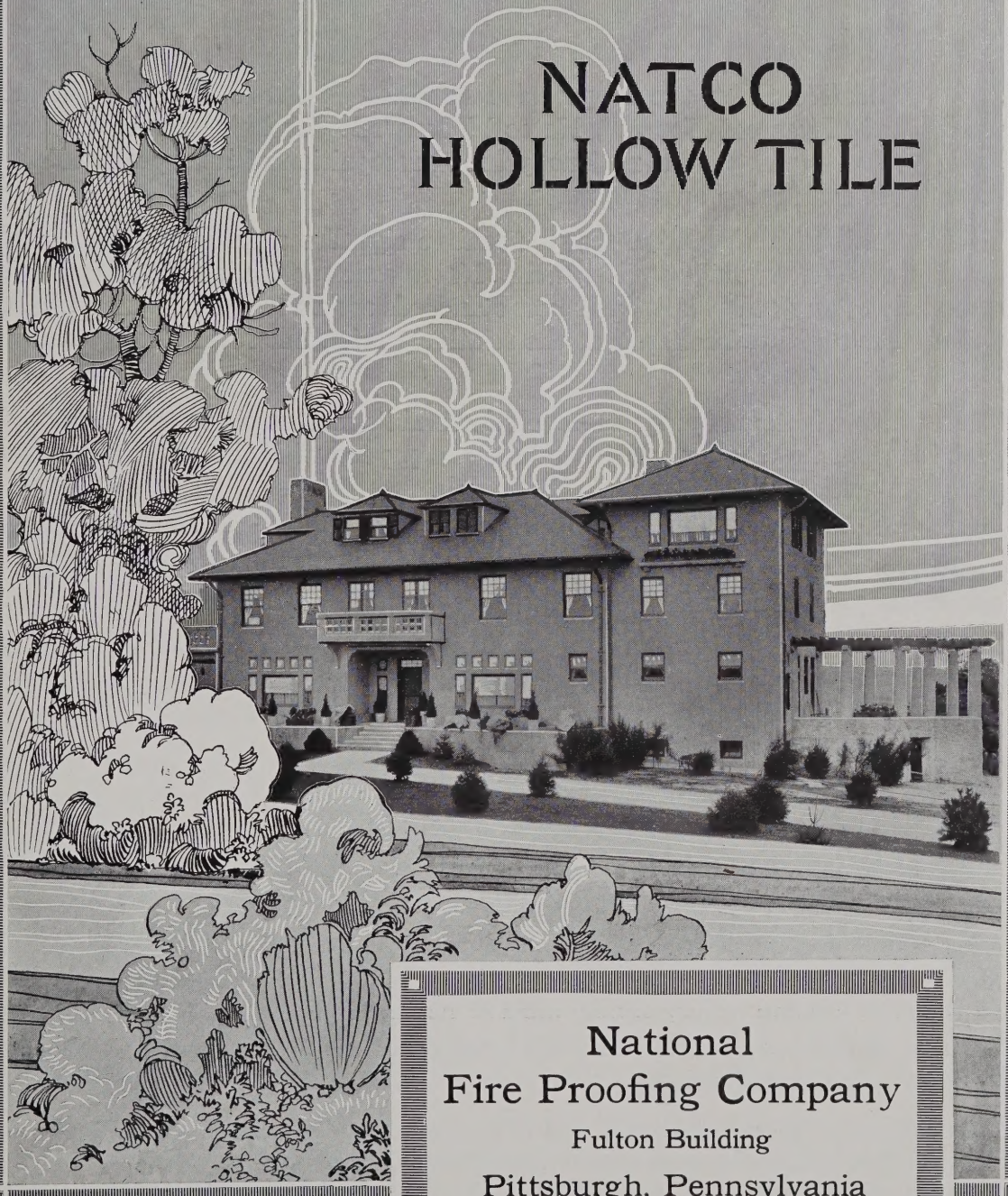
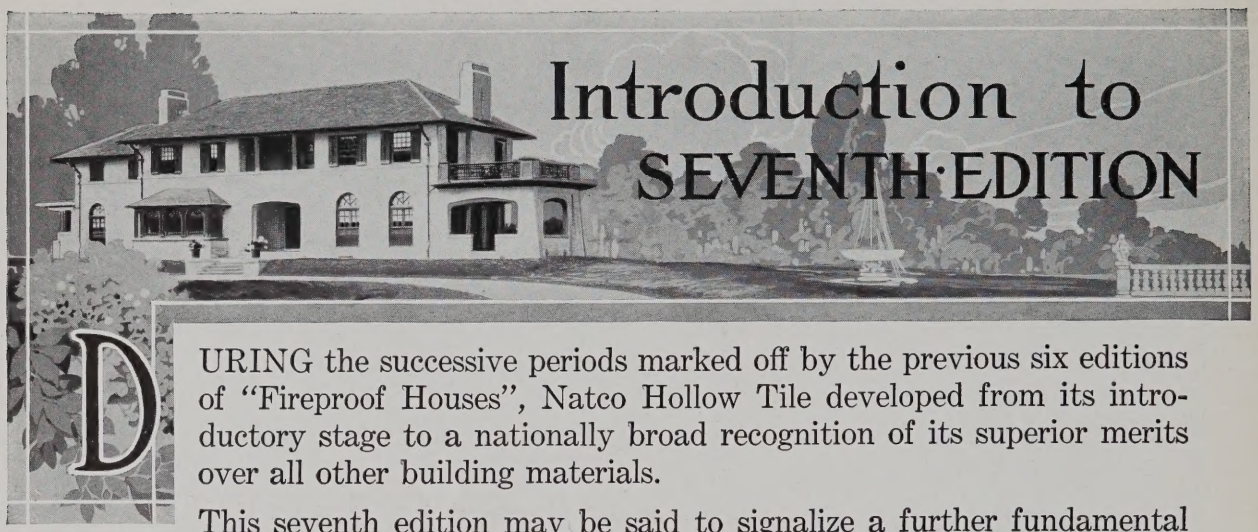
FIREPROOF HOUSES OF MODERATE COST

NATCO HOLLOW TILE



National
Fire Proofing Company
Fulton Building
Pittsburgh, Pennsylvania



Introduction to SEVENTH EDITION

DURING the successive periods marked off by the previous six editions of "Fireproof Houses", Natco Hollow Tile developed from its introductory stage to a nationally broad recognition of its superior merits over all other building materials.

This seventh edition may be said to signalize a further fundamental development—a growing conviction that Natco construction is not only greatly preferable to any other, but that lesser standards are no longer adequate at all. Let us take a glance backward at the relatively brief, but revolutionary career of Natco Hollow Tile.

There are two factors of progress—evolution and its more rapid working counterpart invention. Where evolution fails to keep pace with the world's requirements, invention steps in and fills the breach.

The older building materials—the results of centuries of slow evolution—were no longer meeting the demands of civilization for fire-safe, maintenance-free, absolutely permanent buildings.

Then came the invention of Natco Hollow Tile and with it the revolutionizing of building standards—simplifying the erection, affording absolute protection from fire and insuring a permanence independent of all conditions.

The use of Natco started where the need of such a material was most apparent and where the requirements were most severe—in the great skyscrapers of the cities. Immediately winning recognition as the most effective fireproofing material in this field, Natco played a most important part in the growth of skyscrapers to their present great proportions and popularity.

The next logical development in the use of Natco was in the direction of the smaller buildings such as residences. These presented a problem of their own in that the bearing walls must be built of Natco Hollow Tile entirely, without steel reinforcement, and Natco must be made in the form and of the strength to satisfy these conditions.

The number of such buildings is the best evidence of the success of Natco as adapted to residence construction. Architects showed their approval at once, a great number of them being among the first to specify Natco Hollow Tile for their

own homes. There now are so many Natco houses and moderate sized buildings in all parts of the country that in this seventh edition of "Fireproof Houses" different sub-editions for the various sections have been necessary—space not permitting a fair representation of all in one volume.

NATCO HOLLOW TILE FOR RESIDENCES

Natco Hollow Tile is the highest attainable grade of the same terra cotta material that gives to skyscrapers really fire safe construction. The tile are necessarily of different form and size to meet the requirements of strictly bearing walls. This difference is clearly shown by a description of the latest development of Natco—the tile known as

NATCO XXX

Natco XXX, unlike any other Hollow Tile, has a double cross web. Because of this improvement, every web and shell of every Natco XXX tile as set in exterior and bearing walls, comes in direct alignment and under complete compression. The Natco XXX wall represents the utmost in structural solidity and strength.

The advantages of Natco construction for all types of buildings, large and small, are very generally understood today. Natco Hollow Tile is a material that cannot burn. Neither can dampness, climate, temperatures, or age cause the slightest deterioration.

It is when contrasted with other materials that Natco Hollow Tile looms up to best advantage.

The Natco house or building needs no painting and repairing. It is warmer in winter, cooler in summer, because the Natco Hollow Tile blankets the structure with an insulation of dead air and the material itself does not take in the heat, the cold, or the moisture, as does wood, brick and stone. It affords no entrance to vermin. Lastly and most important of all, it is fireproof in the complete sense of the term.

Any building of moderate dimensions may be and should be built of Natco Hollow Tile. It lends itself to any architectural treatment. The different forms of Natco tile allow for its economical use in any type of structure and in the partitions, floors, and roofs as well as walls.

The residences illustrated here have been selected simply as typical, without any attempt to portray the complete scope of Natco construction.

Be sure to secure the genuine Natco Hollow Tile. It may always be distinguished from its inferior imitations by the trade mark, "Natco", pressed into every tile of genuine Natco Hollow Tile.

RESIDENCE AT MELWOOD STA., PITTSBURGH, PA.

:: *F. H. Smart, Pittsburgh, Architect.* ::

The foundations of the above residence are constructed of twelve inch NATCO Hollow Tile up to grade; and rubble stone with four inch NATCO Hollow Tile backing up to first story beams. The first and second story walls are of eight inch NATCO Hollow Tile. The floors are of wood construction and white stucco was used on the tile with a waterproofing paint. The house measures 65 x 49 and has six rooms and one bathroom. The roof is of slate.

RESIDENCE AT MASONTOWN, PENNSYLVANIA
:: *Andrew P. Cooper, Uniontown, Pennsylvania, Architect.* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. The foundations are twelve inch NATCO and floors of wood construction. The stucco is natural cement color with no waterproofing. The house measures 38 x 36 and has eight rooms and one bathroom. The roof is of shingles.

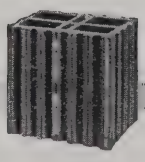
RESIDENCE AT PITTSBURGH, PENNSYLVANIA

:: *Harry S. Bair, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. The foundations are concrete and the floors of wood construction. White stucco was used with a waterproofing paint. The house measures 28 x 44 and has nine rooms and three bathrooms. The roof is of red shingle tile.

RESIDENCE AT BRIGHTWOOD, PENNSYLVANIA
:: *W. E. Snaman, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of ten inch NATCO Hollow Tile. The foundations are of concrete and the floors of wood construction. White stucco was used without waterproofing. The house measures 26 x 45 and has eight rooms and one bathroom. The roof is of slate.



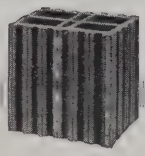
RESIDENCE AT EAST McKEESPORT, PENNSYLVANIA
:: *C. F. Lentz, McKeesport, Architect.* ::

The outside walls of this house are constructed of eight and six inch **NATCO** Hollow Tile. The foundations are of ten inch **NATCO** Hollow Tile and the floors of wood construction. White stucco was used without waterproofing. The house measures 25 x 30 and has five rooms and one bathroom. The roof is of slate.

RESIDENCE AT PITTSBURGH, PENNSYLVANIA

:: *H. D. Gilchrist, Pittsburgh, Architect.* ::

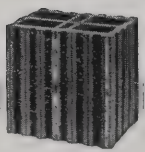
This is an all fireproof house and represents the most advanced type of residence construction. The outside walls are constructed of face brick backed with eight inch NATCO Hollow Tile. The foundations are of stone and the floors of combination hollow tile and concrete and partitions are also of hollow tile. The house measures 40 x 90 and has twenty three rooms and seven bathrooms. The roof is of red shingle tile.



RESIDENCE AT BEN AVON, PENNSYLVANIA

:: *(Private Plans)* ::

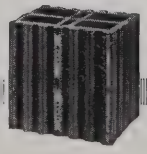
The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of stone. White stucco was used with a waterproofing paint. The floors of the first and second stories were constructed of combination hollow tile and concrete and the partitions throughout are of NATCO Hollow Tile. The house measures 35 x 52 and has twelve rooms and three bathrooms. The roof is of green colored French tile.



RESIDENCE AT YOUNGSTOWN, OHIO

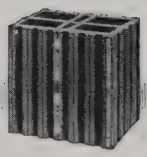
:: *Kling & Zink, Youngstown, Architects.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are twelve inch NATCO and the floors of wood construction. The stucco is of natural cement color with a sand finish and no waterproofing. The house measures 36 x 30 and has seven rooms and one bathroom. The roof is of red tile. The garage is of similar construction.



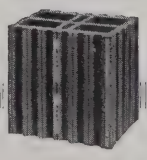
RESIDENCE AT SQUIRREL HILL, PITTSBURGH, PA.
:: *Louis Stevens, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of twelve and eight inch NATCO Hollow Tile. The foundations are of stone and the floors of wood construction. White stucco was used with a waterproofing paint. The house measures 56 x 38 and has ten rooms and two bathrooms. The roof is of gray slate.



RESIDENCE AT McKEESPORT, PENNSYLVANIA
:: *Thomas A. Russell, McKeesport, Architect.* ::

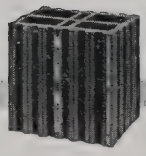
The outside walls of this house are constructed of eight and six inch NATCO Hollow Tile. The foundations are concrete to grade and twelve inch NATCO to joists and floors of wood construction. White stucco was used without waterproofing. The house measures 25 x 33 and has seven rooms and one bathroom. The roof is of slate.



GROUP OF HOUSES AT MIDLAND, PENNSYLVANIA

:: *MacClure & Spahr, Pittsburgh, Architects.* ::

The above illustrates a group of sixteen buildings containing, all told, thirty apartments. The group is owned by a large corporation and tenanted with its workmen. The outside walls are of eight and six inch NATCO Hollow Tile. The foundations are of concrete and the floors of wood construction. The stucco is of natural cement color with pebble dash finish. No waterproofing was used. The average floor area of each apartment is 20 x 26 and includes five rooms in some and six in others with a bathroom to each apartment. The roofs are of slate.



RESIDENCE AT YOUNGSTOWN, OHIO

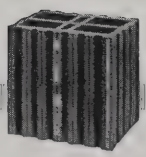
:: *H. C. Ellenberger, Youngstown, Architect.* ::

The outside walls of this house are constructed of eight and six inch NATCO Hollow Tile. The foundations are of twelve inch NATCO and the floors of wood construction. White stucco was used with a waterproofing paint. There are thirteen rooms and two bathrooms. The roof is of red tile shingles.

RESIDENCE AT MOREHEADVILLE, PENNSYLVANIA

:: *R. Maurice Trimble, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of ten inch NATCO and the floors of wood construction. The stucco was painted with a light gray waterproofing paint. The house measures 46 x 50 and has eleven rooms and two bathrooms. The roof is of gray slate.



RESIDENCE AT BEN AVON HEIGHTS, PA.
:: *G. D. Stonerod, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of eight and six inch NATCO Hollow Tile. The foundations are of ten inch NATCO and the floors of wood construction. White stucco was used without waterproofing. The house measures 38x40 and has eight rooms and one bathroom. The roof is of red shingle tile.

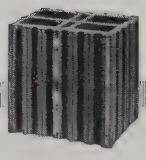
RESIDENCES AT PITTSBURGH, PENNSYLVANIA

:: *Harry S. Bair, Pittsburgh, Architect.* ::

The outside walls of the two stucco houses illustrated above are of twelve and eight inch NATCO Hollow Tile. The construction of the third and center house is of brick veneer on eight inch NATCO Hollow Tile. The foundations of all three houses are of concrete and the floors of wood construction. White stucco was used with a waterproofing paint. The average dimensions of each house are 26 x 38 and they contain nine rooms and two bathrooms each. The roofs are of red shingle tile.

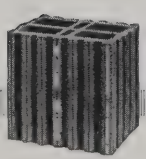
RESIDENCE AT CHARLESTON, WEST VIRGINIA
:: (*Private Plans*) ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of concrete and the floors of wood construction. White stucco was used with a waterproofing paint. The house measures 30 x 34 and has eight rooms and one bathroom. The roof is of green shingle tile.



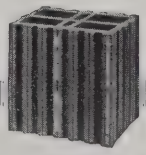
RESIDENCE AT KEOWN STA., PITTSBURGH, PA.
:: *F. H. Smart, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of twelve inch NATCO and the floors of wood construction. White stucco was used with a waterproofing paint. The house measures 48 x 30 and has six rooms and one bathroom. The roof is of red shingle tile.



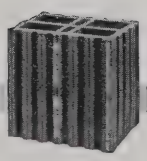
RESIDENCE AT NEW BETHLEHEM, PENNSYLVANIA
:: *F. M. Cribbs, New Bethlehem, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are 10 inch NATCO and the floors of wood construction. White stucco was used without waterproofing. The house measures 35 x 40 and has eight rooms, reception hall and one bathroom. The roof is of shingles.



RESIDENCE AT ARDMORE FARMS, PENNSYLVANIA
:: *W. E. Snaman, Pittsburgh, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of stone and the floors of wood construction. White stucco, sand finish, was used with a water-proofing compound. The house measures 35 x 40 and has ten rooms and one bathroom. The roof is of red Spanish tile.



RESIDENCE AT EAST McKEESPORT, PENNSYLVANIA

:: *C. F. Lentz, McKeesport, Architect.* ::

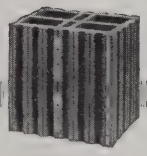
The house illustrated above is of combination brick and hollow tile construction; the first story being brick veneer with five inch NATCO Hollow Tile backing and the second story six inch NATCO Hollow Tile with white stucco finish. No waterproofing was used. The foundations are of ten inch NATCO Hollow Tile and the floors of wood construction. The house measures 31 x 35 and has five rooms and one bathroom. The roof is of slate.

TWO FAMILY RESIDENCE AT KEOWN STA., PA.
:: *Smart & Hergenroeder, Pittsburgh, Architects.* ::

The outside walls of this house are constructed of ten and eight inch NATCO Hollow Tile. The foundations are of twelve inch NATCO and the floors of wood construction. White stucco was used with a waterproofing paint. The house measures 108 x 62 and has eleven rooms and three bathrooms in each apartment. The roof is of red shingle tile.

RESIDENCE AT UNIONTOWN, PENNSYLVANIA
:: *Andrew P. Cooper, Uniontown, Architect.* ::

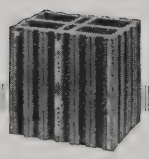
The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are twelve inch NATCO and the floors of wood construction. White stucco was used without waterproofing. The house measures 64 x 39 and has nine rooms and two bathrooms. The roof is of green shingles.



RESIDENCES AT PITTSBURGH, PENNSYLVANIA

:: *Harry S. Bair, Pittsburgh, Architect.* ::

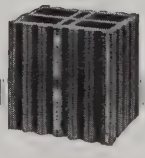
The outside walls of the stucco residence are constructed of twelve and eight inch NATCO Hollow Tile. The second is a face brick house with eight inch NATCO Hollow Tile backing. The foundations are of concrete and the floors of wood construction. White stucco was used with a waterproofing paint. Both of these houses measure 26 x 38 and contain nine rooms and three bathrooms each. The roofs are of slate.



RESIDENCE AT MANSFIELD, OHIO

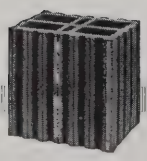
:: *F. B. Hursh, Mansfield, Architect.* ::

The outside walls of this house are constructed of eight inch NATCO Hollow Tile. The foundations are of twelve inch NATCO and the floors of wood construction. The stucco is natural cement color mixed with a waterproofing compound. The house measures 32 x 31 and has eight rooms and one bathroom. The roof is of red tile.

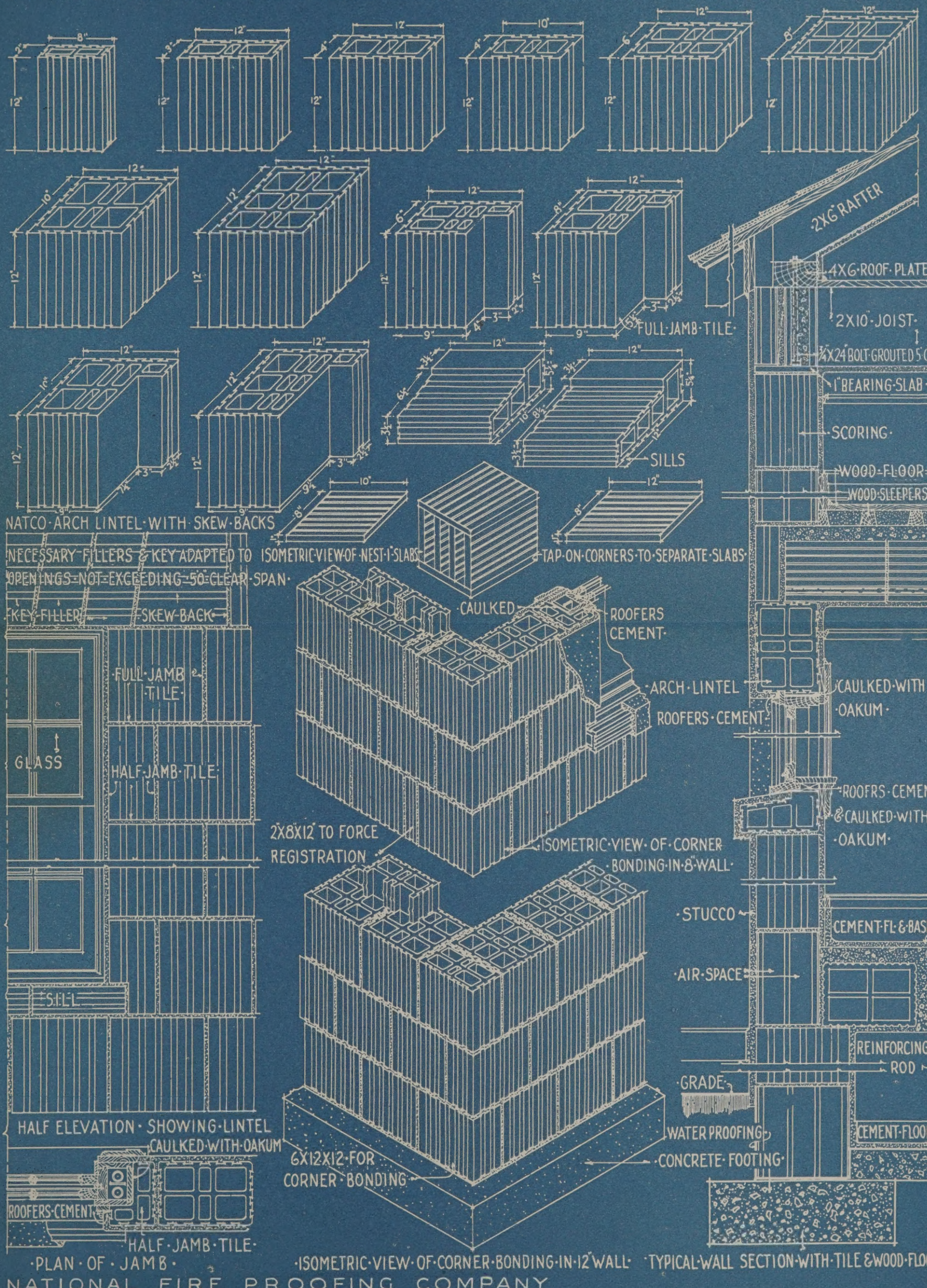


RESIDENCE AT EAST McKEESPORT, PENNSYLVANIA
:: *C. F. Lentz, McKeesport, Architect.* ::

The outside walls of this house are constructed of eight and six inch NATCO Hollow Tile. The foundations are of ten inch NATCO and the floors of wood construction. White stucco was used without waterproofing. The house measures 36x24 and has five rooms and one bathroom. The roof is of slate.



TYPICAL DETAILS OF NATCO XXX HOLLOW TILE FOR RESIDENCE CONSTRUCTION



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